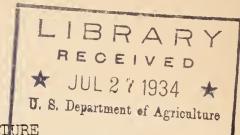
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FRUIT JELLIES, PRESERVES, JAMS, MARMALADES, CONSERVES, AND BUTTERS

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Food may be preserved by the use of sugar. A concentrated sugar solution retards the growth of micro-organisms, and therefore tends to prevent spoilage. Sugar-preserved fruit products are named according to their consistency, which is determined partly by the type and the form of the fruit, partly by the method of cooking, and partly by the quantity of sugar contained. This group of products includes jellies, preserves, jams, marmalades, conserves, and butters.

### · FRUIT JELLIES

An ideal jelly has a bright color and delicate flavor, characteristic of the fruit from which it is made. When turned out onto a plate, a mold of jelly should be translucent and should hold its shape but quiver when the plate is moved. Jelly should be so tender that it cuts easily with a spoon, yet breaks with a sharp cleavage line and shows sharp faces.

In order to make a fruit jelly which sets successfully, at least three substances must be present in the right proportions - pectin, acid, and sugar.

### Fruits for Jelly Making

Usually the following fruits contain sufficient acid and pectin to make good jelly:

Tart apples, such as
Winesap
Blackberries
Crabapples
Cranberries
Currants

Wild grapes or cultivated grapes
of slip-skin type, such as Concord
Gooseberries
Plums of Wild Goose type, or
beach plums
Tart quinces
Raspberries, black and red

Often the juices of two fruits may be mixed to give jellies of delicious blended flavor, of particularly attractive color, or to combine juices which together furnish the necessary acid and pectin. Good combinations are current and raspberry, raspberry and gooseberry, apple and quince, grape and crabapple, cranberry and quince. Furthermore, by the addition of prepared pectin, good jellies may be made from many other fruits ordinarily not used for jelly making because they lack pectin. (Special directions accompany the commercial pectins on the market and should be carefully followed. The directions given here deal only with fruits which should yield good jelly without the addition of pectin.)

Variations in the acid and pectin content of fruits may occur with variety, season, or locality of production. The recommendation is frequently made to test fruit juices for pectin by adding alcohol, and to make this test the basis for determining the quantity of sugar to be used for jelly. This test is confusing in its results, however, because other substances in fruit juices besides pectin may be precipitated by alcohol. More emphasis is placed here upon selection of the fruit and care in following the details of the procedure than upon a test for pectin.

Juices suitable for jelly making are definitely acid in flavor. If acid seems lacking a precaution is to add it in the form of 1 tablespoon of strained lemon juice to each standard measuring cup of fruit juice. This not only facilitates jellying but odds to flavor. Tart apples, crabapples, cranberries, currants, wild grapes, gooseberries, plums of Wild Goose type, and tart quinces give no trouble from insufficient acid. But some blackberries, black and red raspberries, ripe Concord grapes, plums and quinces may require additional acid to make them yield good jelly.

Jelly-making equipment includes --

Pans for washing fruit Brush for hard fruits Colander Stainless steel paring knives . . . jelly glasses Scales Quart cup SStandard measuring cup Large kettle for cooking fruit Long-handled spcons Support for jelly bag Jelly bag, canton flannel with nap side in, or 2 or 3 thicknesses of good quality cheesecloth, or a sugar bag

Tray

Jelly glasses

Large pan for sterilizing Saucepan for cooking jelly Teaspoon Tongs for jars Paraffin Small pan for melting paraffin' Labels

### Selection and Preparation of the Fruit

Select a mixture of slightly underripe and ripe fruit. The slightly underripe fruit contains more acid and pectin, and the ripe fruit furnishes more desirable flavor. Overripe fruits should not be used. The juice may fail to jelly because of its low acid content.

Wash all fruit thoroughly and discard any damaged parts. Wash berries quickly and with care. Leave currents on their stems, and leave the skins on grapes and plums. Remove stems and blossom ends from apples and quinces and cut the fruit into pieces, but do not remove cores or skins.

Prepare small lots of fruit at a time, and carry the jelly process through promptly. For example, cook up and extract juice from about 6 quarts of currents at a time, or 8 pounds of apples or grapes. If a large quantity of jelly is to be made, start a second lot of fruit cooking as soon as the first has finished dripping from the jelly bag, or use more than one jelly bag.

### Extracting the Juice

Pectin can be extracted only by cooking the fruit. In cooking normally juicy fruit it is desirable to add only the quantity of water specified. If too much water is used, the excess water has to be cooked out, and the prolonged cooking is destructive of pectin, flavor, and color.

If the fruit is lackin in normal juiciness, as it may be when grown under drought conditions, double the proportion of water and increase the time of cooking to soften the fruit.

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### Quentity of water to 1 pound prepared fruit

Fruit	Water

Apples l cup, or water to cover
Crabapples l cup, or water to cover
Blackberries ) (Firm fruit, $\frac{1}{4}$ cup
Blackberries ) (Firm fruit, $\frac{1}{4}$ cup Black raspberries ) (Very soft fruit, no water
Cranberries 3 cups
Currents 1/4 cup, or no water
Gooseberries 1/4 cup
Grapes, cultivated, such as Concord 1/4 cup, or no water
Grapes, wild.,lcup
Plums, Wild Goose type 1/2 cup
Quinces l cup, or water to cover
Red raspberries No water

Cook the fruit in a broad, flat-bottomed kettle and stir to prevent scorching. Crush soft fruits to start the flow of juice. Count time only after the fruit begins to boil. Berries, currants, and grapes need 5 to 10 minutes to cook soft; apples and quinces need about 25 to 30 minutes — all depending on the firmness of the fruit.

Pour the hot cooked fruit at once into a jelly bag of canton flannel, or of two or three thicknesses of good quality cheesecloth, or unbleached muslin. Let the juice drip out; do not squeeze the bag. When the drops are few and far between press the bag lightly with the flat side of two knives to start the flow again.

Some fruits, such as currents, crabapples, and wild grapes, are so rich in jelly-making power that two extractions of juice can be made from the same fruit. As soon as juice ceases to drip after the first cooking, turn the pomace back into the kettle, barely cover with water, and boil gently with frequent stirring. An asbestos mat beneath the kettle will help to prevent burning. Heat gradually and simmer from 15 to 20 minutes and extract the juice as at first. Some jelly makers mix the juice of the first and second extractions. Others prefer to keep the two extractions separate and make jelly from each lot. If all the juice has good color and strong jelly-making power there is little choice between these two methods.

At this point, before going on with the jelly, wash the jelly glasses place them on a rack in a pen of cold water, bring to boiling, and boil until the jelly is finished. As the glasses are removed for one lot of jelly, add more to keep a continual supply of sterilized jelly glasses. To prevent breaking, dip the edge of the glass in the water, so that the boiling water reaches both sides at once.

### Combining Sugar and Juice

Use granulated white sugar. Repeated tests in the laboratories of this bureau show that results are exactly the same with refined cane sugar and refined beet sugar.

Work with small lots of juice at a time - about 6 to 8 cups. This quantity of juice with the sugar boils down quickly to the jellying stage, and short cooking retains the fresh fruit flavor and color, and makes jelly of the best texture.

Measure the sugar and the extracted fruit juice accurately, and use the following proportions:

### Quantity of sugar to 1 cup juice

Fruit				Sugar (cups)
Apple	ted, suc	h as Concor	rd	1 3/4 3/4 3/4 1 1 3/4 to 1

### Boiling down for the Jelly Test

Heat the fruit juice and sugar quickly to boiling, using a large flat-bottomed sauce-pan that permits rapid evaporation. Stir only until the sugar is dissolved, no more.

Boil rapidly until the jelly test is reached. For this test, dip a large spoon into the boiling sirup, and lift up the spoon so that the sirup runs off the side. As the sirup cooks down it reaches a stage when it no longer runs off the spoon in a steady stream, but separates into two distinct lines of drops, which "sheet" together. Stop the cooking, as soon as the boiling sirup gives this "sheeting off" test.

Let the hot sirup stand in the kettle while lifting the clean jelly glasses from the boiling water onto a tray. Then skim off the film from the hot jelly, and pour into the hot drained glasses carefully so that the jelly does not splash up or drip onto the rim.

Cover with clean cheese cloth and let the glasses stand until the jelly has set -- for 12 hours or longer.

### Sealing and Storing

When the jelly is firm and well set, be sure that the inside rims of the glasses are free from drops of jelly. A good seal cannot be obtained with paraffin unless the glass is clean and dry. Pour melted paraffin over the top and rotate each glass in the hand so that the hot paraffin runs up to the rim to form a good seal. Cover and label with name of fruit and date of making, and store in a cool, dry place.

### Yield of Jelly

Two pounds of prepared fruit yields approximately 1 pint of juice. One pint, or 2 cups of fruit juice made up with an equal quantity of sugar yields about  $1\frac{1}{2}$  pints of jelly.

### Utilizing the Left-over Pomace

The fruit pomace remaining after the juice has been extracted for jelly can oftentimes be made into fruit butter.

### Special Problems in Jelly Making

Temperature tests for jelly

The recommendation is frequently made that jellies be cooked to a certain temperature, as to 219° or 221°F. Experience has shown that dependence cannot be placed upon the temperature tests for jellies. Temperatures reached when the sheeting off test is given may vary with the kind or condition of the fruit.

Jelly from stored fruit juices

Fruit juices may be canned and stored to be made into jelly later. This practice makes it possible to handle larger quantities of fruit during a rush season.

Fill hot sterilized glass jars with the juice, partially seal, place on a rack in hot water to cover, bring water to boiling, and boil 20 minutes for pint and quart sizes. Complete the seal at once, and store in a cool, dry place protected from light.

Jelly made from fruit juice which has been stored for three months may have as good texture as jelly from fresh juice. It may show, however, some loss in the color and flavor, especially in red fruits.

Sugar crystals in jelly

Sugar crystals in jelly may result from an excess of sugar, over cooking of the jelly, lack of sufficient acid in the fruit, or allowing jelly to stand too long before sealing.

Crystals in grape jelly

Crystals of cream of tartar, potassium acid tortrate, form in jelly from cultivated grapes. The crystal formation may be reduced by any of the following methods:

- 1. Allow juice to stand overnight, then siphon off or strain.
- 2. Can the juice and allow to stand for some time before making into jelly.
- 3. Combine with other fruit juices.

Weeping in jelly or syneresis

Weeping or syneresis occurs in jellies from very acid fruits, especially cranberry and current. These jellies should be stored in containers of a size to be used at one meal.

Mold on jelly

Molds may grow on jellies when the paraffin layer has become loosened, or on jellies which have cozed, or jellies stored in a hot damp place. If mold is growing on top of the paraffin it is not likely to affect the jelly. But if mold grows beneath the paraffin, the flavor of the jelly may be impaired.

Fermentation of jelly

Fermentation of jelly is caused by yeast or bacteria. Steps to safeguard against fermentation are: use of new paraffin each year; use of sterilized jelly glasses; protection of jelly from contamination before sealing; care to obtain good seals; and proper storage.

PRESERVES, JAMS, MARMALADES, CONSERVES, FRUIT BUTTERS

Essential differences between preserves, jams, marmalades, conserves, and fruit butters are nowhere clearly defined. The definitions given below are based on the best opinion at the present time and are planned to indicate differences in preparation rather than to include all terms in common usage.

### Preserves

A fruit preserve consists of whole small fruits or rieces of larger fruits, cooked in a sirup until clear and stored in the sirup or the jellied juice.

While the fruit is cooking it absorbs sugar from and gives up juice to the sirup. At the same time the sirup is concentrated to a degree that will preserve the product. The sim is to bring about the exchange from sirup to fruit without undue change in shape of the fruit or toughening of its tissues. To accomplish this the different types of fruit must be handled differently.

The following general rules will help to explain the detailed directions given on pages 11 to 19.

F ruits commonly used are cherries, peaches, pears, plums, quinces, strawberries, watermelon, yellow tomatoes, and figs.

Select, if possible, varieties which tend to hold their shape. With such sof fruits as apricots and peaches use those slightly underripe. Fick over all berries carefully, wash, and drain. Wash, stem, and seed cherries. Wash and prick the skins of plums to prevent shrivelling of the fruit. Remove skin of soft fruits, such as peaches, apricots, figs, and tomatoes, by a hot dip. Fare and core pears and quinces, and cut them into helves or querters as desired. Pare watermelon rind and cut into pieces of desired size.

Weigh the fruit and use three-fourths or an equal weight of sugar.

All fruits must be heated, either in sirup or in water, to change the cell walls so they will absorb sugar. To retain the shape and flavor of soft fruit, avoid cooking it any more than necessary. Cooking in sirup toughens the cell wall material. This tends to make soft fruits firm but will toughen very firm fruits, such as some pears, quinces, and watermelon rind. Frevent toughening of the fruits by cooking in water or dilute sirup until tender before putting them in the concentrated sirup.

Fruits, such as cherries, peaches and pears, which do not give up their juices readily, may be covered with sugar to draw out the juice; or a small quantity of water may be added to the fruit and sugar to form a sirup. Boil the fruit and sugar mixture until the fruit becomes clear. Drain the fruit and place it in a sterilized jar, filling the jar about three-fourths full. Concentrate the sirup by further boiling, pour it over the fruit while hot, and seal the jar.

For juicy fruits of soft texture, two methods may be used as follows:

- Method 1. Add sugar and bring slowly to boiling, cooking the fruit until just tender. Set aside for several hours to allow the fruit to absorb more sirup and so "plump up." Reheat to boiling and pout into sterilized jars and seal. If the sirup seems too thin, drain from the fruit and concentrate by boiling. Add to the fruit while hot and seal.
- Method 2. Crush a small portion of the fruit and heat while stirring for about 3 minutes. Strain. Add sugar to the juice and stir while heating slowly until sugar is entirely dissolved. Drop fruit into this sirup and simmer 3 to 5 minutes, then boil rapidly 10 to 15 minutes, or until fruit is somewhat clear. Let fruit stand in sirup several hours to become plump. Drain and place in sterilized jars. Cook the juice rapidly until fairly thick, pour over the fruit and seal.

The method for making "sun cooked" preserves is that described for straw-berries on page 13. This method may be used successfully for other small, soft fruits. Hot sunshine is required to cause the necessary evaporation.

Remove scum before pouring preserves into jars.

If the fruit is one which contains pectin and acid, concentrate the sirup until it gives the jelly test. Otherwise concentrate it until just a little thicker than for jelly (boiling point 2190-2230F.). To bring about a slightly jellied juice, which increases the attractiveness of preserves of most kinds, add pectin. Use commercial pectin directions for this process.

### Jams

Jams differ from preserves in that no effort is made to retain the shape of the fruit and a more or less homogeneous mixture results. Ordinarily, jams are made from small fruits and the entire fruit is used. Of large fruits only the fleshy portions are used.

Well-ripened fruit is desirable both for flavor and texture. If should be prepared and weighed as for preserves. The proportion of sugar required is the same (3/4 to equal parts). One fruit may be used along or with others is desirable flavor combinations. Jams may be crushed or "cooked up" as desired. A wooden potato masher is useful in crushing. A short cooking with the addition of a small amount of water before sugar is added helds in the extraction of any pectin. Add the sugar to the boiling mixture and cook until a good jelly test is obtained. In case the fruit does not contain pectin or acid, either may be added as in jelly or preserves. Jam made from fruits without pectin is cooked to a slightly thicker consistency than for jelly, as is recommended, also, in the case of preserves.

### Marmalades

Marmalades have the characteristics of jellies and preserves combined. They contain the pulp and may contain the skin also, suspended in jellied juice. They are prepared from pulpy fruits, preferably those that contain pectin. Citrus fruits are especially desirable for flavor and pectin content. The pectin is extracted more readily by cooking the fruit before the sugar is added. The fruit is added in distinct slices or shreds and is cooked until clear.

### Conserves

Conserves are similar to jame, but they always contain a mixture of fruits and usually have nuts and sometimes raisins added.

### Fruit Butters

Fruit butters are made by cooking the pulp of any fruit to a smooth consistency, thick enough to hold its shape and soft enough to spread easily. They are usually sweet, with acid or spice added as desired, depending upon whether they are to be served as a relish or a spread. The residue left after extraction of juice for jelly may be used as a source of pulp for butter. In this case it is desirable to add spice or acid.

Fruits most commonly used for butters are tart apples, spricots, crabapples, grapes, perches, pears, plums, and quinces.

Use only sound fruit, sound portions of windfalls or culls, or pomace from jelly making. Wash the fruit thoroughly. Prepare the fruit for cooking and add liquid as follows:

Apple - Cut the fruit in quarters and add helf as much water or cider as fruit.

Apricot - Scald, remove skins and nits, crush and cook in own juice. Crabapple - Cut in quarters, remove stems and blossom ends, and add half as much water as fruit.

Grape - Remove from stems, crush and cook in own juice.

Peach - Scald, remove skins and rits, crush and cook in own juice.

Pear - Quarter, and add half as much water as fruit.

Plum - Crush, and cook in own juice.

Quince - Cut into small rieces, and add half as much water as fruit.

Cook with constant stirring until the fruit is soft. Fut through a colunder, then through a fine sieve to remove all fibrous material and give a smooth mass. Measure the pulp and add one-half the measure of sugar. Add a little salt, spices as desired, and acid, such as lemon juice if needed. Cook rapidly with constant stirring to prevent scorching. As cooking progresses reduce the heat somewhat to prevent spattering. When the butter is thick and has taken on a glossiness or sheen, pour while boiling hot into sterilized containers and seal.

Use only fresh spices and enough to give a delicate spiced flavor. Spice should not obscure the natural fruit flavor.

If a light-colored butter is desired, whole spices may be tied in a small cotton bag and left in the fruit butter only during the cooking period.

### DIRECTIONS

On the following pages, in tabular form, are directions for making preserves, jams, marmalades, and conserves of a number of the common fruits.

### PRESERVES

		Pr	Proportions			
Fruit	Preparation	Prepared fruit	Liquid	Sugar	Other ingre- dients	Method
Cherry	Pitted	To each pound pitted cherries use	Juice from pitting	3/4 lb. to 1 lb.		Combine sugar and fruit in alternate layers and allow to stand overnight to extract juice. Or add the sugar to the fruit and stir gently while heating slowly to boiling.
						care to prevent burning. Allot to stand in sirup overnight. Drain off sirup and fill jars with fruit to within 1 inch of top. Bring sirup to boiling, pour over fruit, and seal.
Peach	Pare, cut into halves, and remove pits. Or if cling. stones, pare and cut flesh from pits	To each pound use	Hone or 1/2 cup	3/4 lb. to l lb.		Combine sugar and fruit in alternate layers and allow to stand overnight to extract juice. Stir while heating slowly to boiling. Or prepare a sirup, add fruit and boil rapidly. Cook until fruit is tender and clear. Pour into hot sterilized jars and seal.
Pear	Pare, cut into quarters and re- move cores. Leave small pears whole	To cach pound use	None or 1 cup water	3/4 lb. to 1 lb.		Same as peaches. Cook small pears in sirup.
	removing blossom end but not stems					

PRESERVES (continued)

	Method	Combine sugar and fruit in alternate layers and allow to stand overnight to extract juice. Stir while heating slowly to boiling. Add the ginger and the lemon rind, which has been cooked until tender in a small quentity of water. Boil rapidly until somewhat thick, taking care to prevent scorching. When the	Iruit is clear, tender, and a rich amber color, fill into sterilized jars and seal.  Dissolve sugar in water and bring to boiling.  Add plums, and boil gently until fruit is clear and tender Fill into sterilized	jers and seal.  A very hard fruit may be cooked in water or stepmed until tender. If cooked in water, use cooking water to prepare sirup. If steamed, put into a thin sirup. To make sirup.	cook sugar and water about 3 minutes. Add fruit and boil 1 to $1\frac{1}{2}$ hours, until fruit is tender and somewhat clear. Pour into sterilized jare and seal.
	Other ingre- dients	l or 2 pieces Ginger- root 1/2 lemon thinly	811ced	ende see.	<b>-</b>
ions	Sugar	1/2 to 3/4 lb.	3/4 1b.		
Proportions	Liquie	None	1/2 cup	1-3/4 cups water	
	Frepared fruit	To each pound use	To each pound	To each pound use	
	Preprestion	Pere, remove cores and cut into small places	Prick	Pare, cut into quarters and core	
	Fruit	hears, Gingered (Keiffer pears)	Plum, Demson	Qunice	

PRESERVES (continued)

	Method	Crush and cook the emrll berries for about 3 minutes while stirring. Strain. Add sugar to the juice, stir, and heat slowly until sugar is entirely dissolved. Drop large berries into sirup, simmer 3 to 5 minutes, then boil rapidly 10 to 15 minutes or until fruit is somewhat clear. Bemove scur. Allow fruit to stand overnight in kettle. Fill sterilized jars with drained berries. Gook juice rapidly until fairly thick. Four over the berries and seal. (See above). After the 3 to 5 minute simmering period, Arain the berries from the sirup for about 10 minutes to a temperature of 2210F., or until it is fairly thick. Remove scur, add lemon juice, and pour sirup in a thin layer over the berries on pan or platter. Gover with window gless propped up about one-fourth inch from the plate. Flace in sun for 2 or 3 days, or until sirup has formed a jelly. After each day's sunning, turn the berries over. Take in house at night. Without reheating, put jellied preserves into hot sterilized jars and seal.
	Other ingre- dients	l ten. lemon juice
one	Suger	3/4 16.
Proportions	Liquid	truit juice straw berry
	Prepared fruit	To each pound selected berries use to \frac{1}{2} 15. small berries crushed for juice.* straw- berry berry
	Preparation	Select large, solid, ripe fruit, wash and car. Use small berries for juice strawberry
	Fruit	Strawberry sun pre- preserves

\*Other small, soft fruits may be preserved by this method.

PRESERVES (continued)

	Method	Cook the lemon until tender in a portion of the water. Cook remrinder of water with sugar to make a sirup. Add whole tometoes ginger root, lemon and liquid in which cooked. Boil until tomatoes are somewhat clear end sirup is somewhat thick. Remove scum, pour preserves into hot sterilized jars, and seal.  Make a sirup of the sugar and the 2 quarts of water. Drop watermelon rind and ginger root into the boiling sirup. Boil for about 1 hour. As the sirup thickens add lemon and spices, if desired. When somewhat thick, or a temperature of 222og. has been reached, pack into sterilized jars, add sirup to cover, and scal.	
	Other ingre- dients	thinly sliced l piece ginger root thinly sliced. Spices or ginger root	
500	Sugar	3/4 lb.	
*+#0#0#Q	Liquid	3/4 cup water 2 qts. water	
	Prepared fruit	To each use pound before lime water treatuse use	
	Preparetion	Use with skins on or scald and renove skins  Use only the white part from rind.  Cut into inch pieces. Soak for 3½ hours in lime water containing 1/5 ounce Ifme to 1 cuart water.  Drein and place in clear water for 1 hour. Drain and boil for 1½ hours in fresh water.	
	Fruit	Tomato preserves (yellow pear shapei) shapei	

N Z	Method	Crush a portion of the fruit and heat to boiling with constant stirring. Add sugar and when dissolved add remaining fruit and cook rapidly until thickened to a jelly-like mass. Stir to prevent scorching. Add the lemon juice. Four into hot sterilized jars and seal.	Crush and heat the fruit. If the seeds are objectionable, put through a fine sieve to remove them. Add sugar, heat to boiling while stirring, and cook rapidly to the jelly test. Pour into hot sterilized jars and seal.	Froceed as for blackberries and black rasp-berries, except do not remove seeds. Cook rapidly about 30 minutes until jelly test is reached. Four into hot sterilized jars and seel.
	Other ingre- dients	2 trble- epoons lemon juice		
lons	Sugar	3/4 lb.	3/4 lb.	3/4 lb. Goose- berries 1 lb.
Frorortions	Liquid	None	None	None
	Prepared fruit	To each pound use	To each pound use	To esch pound use
	Frel arction	Sceld and remove skins. Cut into halver and re-move rones	Remove caps	Remove caps or stems
	Fruit	Apricot	Berries Black- berries, Black rasp- berries	Blue- berries, Goose- berries, Logan- berries, Red resp- berries, Strow- berries

## JAMS (continued)

	Method		Cover rhubarb with a portion of sugar and allow to stand en hour or two. Crush strawberries, mix with remaining sugar, then combine with rhubarb. Heat over a low flame until sugar is dissolved, then boil rapidly, stirring frequently to prevent burning. Cook about 30 minutes or until fairly thick. Four into hot sterilized jars and seal.	Combine the fruits and chop. Add sugar, salt, and water and cook until thick, or about one-half hour. Four into hot sterilized jelly glasses and cover with paraffin; or pour into hot sterilized jars and seal.		Crush fruit, and stir while heating to boiling. Add sugar. Heat slowly until sugar is dissolved, then cook rapidly to jelly test. Stir to prevent scorching. Pour into hot sterilized jars and seal.	Place pinespple and an equal weight of sugarin a large pan over low heat. Stir until sugar is dissolved. Bring to a brisk boil and cook for 10 minutes with constant stirring. Add strawberries and sugar, and cook rapidly until somewhat thick. Pour into hot sterilized jars and seal.
	Other ingre-	dæente	-	1/8 tea- spoon salt l orange	reisins		
cions	Sugar		3/4 to 1 1b.	3/4 lb.	· · · · · · · · · · · · · · · · · · ·	3/4 to 1 1b.	Same weight as pine-apple lar.
Proportions	Liquid		None	l cup water		None	· None
	Prepared fruit		To each pound use	To each pound Jse		To each pound use	Weigh pineapple cubes 2 lbs. strew- berries
ì	Freparation		Remove caps from strewberries. Cut rhubarb into inch pieces	stort and remove any that are stecked or soft. Feel oranges and remove seeds.		Remove currents from stems, and caps from rasp- berries	Remove caps from berries, also skin and "eyes" from pineapple. Cut pineapple into cubes Discard the core.
ţ	Fruit		Strewberry and rhubarb, (equal weights)	Granberry		Current and red raspberry (equal weights)	Strawberry and ping- apple (equal weight.s)

17 JAMS (continued)

					(1)	
			Fro (	ortions		
Fruit	Freparation	Prepared fruit	Liquid	Sugar	6ther Ingre-	%ethod
Poach, tart variety	Pare and removo stones	To each pound use	None	3/4 1b.		Grush fruit and rut down in layers with sugar until juice is extracted. Heat slowly to boiling while stirring. Then cook rapidly until somewhat thick. Pour into hot sterilized jare and soal.
Plum, tart veriety	Prick	To erch pound use	1 cup water.	3/4 lb.	-	Gook plume in water until somewhat softened Add sugar and continue to cook until fruit is very coft. Pour into hot sterilized jare and seal.
			4	MARWALADES		
Orange, grape- fruit, nd lomen (Amber mormulede)			3 times weight or measure of fruit, pulp, juice, rnd oar-boiled peel. Boil this mixture raridly 40 mins. before measuring for emount of sugar.	An equal weight or measure to the boiled fruit rulp, juice, and peel.	A little salt	Boil the fruit mixture repidly with added solt and sugar for 25 minutes, or until lally stage is reached. If a thick marmalace is desired, bail langer, but watch carofully to prevent scorching. Let stand until slightly cool. Then stir to distribute fruit. Put into hot sterilized jelly glusses or pint jurs. These quantities yield about 5 pints, or 12 to 14 glasses, of marmalade.
	perbeoiled peel.	_				

# MARMALADES (continued)

			D C	1 to		
		,	d0.1.1	DOL CTOUR		
Fruit	Freparation	Frenared			Other	Method
		fruit	Liquid	Sugar	ingre-	
	L.		,		dients	
Orange and	Select fruit and		3 times	An equal	A little	Boil the fruit mixture rapidly with
lemon	ure equal parts.		weight or	weight or	salt	added salt and sugar for 15
(Sweet	Prepare as des-		measure	measure		minutes, or until jelly stage is
orange)	described for		of fruit,	to boiled		reached. Finish as for amber
( - 3-m - 2	Arber Marmalade		pulp,	fruit pulp,		marmalade.
ı			juice, and	juice, peel,		
			parboiled	and water.		
			peel			
			Boil the	-	,	
			mixture			
	٠		rapidly		,	
			for 25			
	e de la constante de la consta		minutes			
			before			
			measuring			
			for amount			
			of sugar			
Green	Trim tomatoes, and	To each	None	2 lbs.	1 tsp.	Cook lemon and orange in a small
tomato		four			selt	quantity of water until tender. Mix
	pieces, or in	pounde			1 lemon	all ingredients, stir, and heat
	medium or thick	nee			and 2	slowly until sugar is dissolved.
	slices as pre-				oranges or	Boil until tomatoes are soft and
	ferred.				5 lemons	the mixture somewhat thickened.
				100	cut into	Pour into hot sterilized jare
٠					very thin	and seal.
					slices	
		•				

